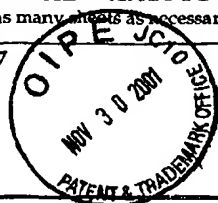


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Page 3 of 7	First Named Inventor: Scott Adams	
	Filing Date: February 2, 2001	



U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number Code ²	Kind (If known)				
Examined by E.I. Tamen		5,235,187		Arney et al.	08/10/1993	250	366
		5,287,082		Arney et al.	02/15/1994	250	306
		5,316,979		Donald et al.	05/31/1994	338	307
		5,393,375		MacDonald et al.	02/28/1995	437	203
		5,397,904		Arney et al.	03/14/1995	287	66
		5,399,415		Chen et al.	03/21/1995	428	209
		5,426,070		Shaw et al.	06/20/1995	437	203
		5,427,975		Sparks et al.	06/27/1995	437	79
		5,428,259		Suzuki	06/27/1995	310	309
		5,449,903		Arney et al.	09/12/1995	250	306
		5,483,158		van Heteren et al.	01/09/1996	324	318
		5,501,893		Laermer et al.	03/26/1996	488	161
		5,563,343		Shaw et al.	10/08/1996	73	514.18
		5,610,335		Shaw et al.	03/11/1997	73	505
		5,611,888		Bosch et al.	03/18/1997	156	443.1
		5,611,940		Zettler	03/18/1997	73	514.16
		5,628,917		MacDonald et al.	05/13/1997	216	12
		5,637,189		Peeters et al.	06/10/1997	438	466
		5,645,684		Keller	07/08/1997	156	643
		5,670,881		Arakawa et al.	09/23/1997	324	322
		5,719,073		Shaw et al.	02/17/1998	437	228
		5,726,073		Zhang et al.	03/10/1998	437	228

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Examiner Signature	<i>E.I. Tamen</i>	Date Considered	10/16/03
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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 4341P053		Application Number: 09/775,491	
Page 4 of 7		First Named Inventor: Scott Adams			
		Filing Date: February 2, 2001			

U.S. PATENT DOCUMENTS

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		Number Code ²	Kind (If known)			
Karl I. E. Tamm		5,759,913		Fulford, Jr. et al.	06/02/1998	438/624
		5,770,465		MacDonald et al.	06/23/1998	437/67
		5,798,557		Salatino et al.	08/25/1998	257/416
		5,804,084		Nasby et al.	09/08/1998	216/2
		5,846,849		Shaw et al.	12/08/1998	438/152
		5,847,454		Shaw et al.	12/08/1998	257/734
		5,869,916		Suzuki et al.	02/09/1999	310/309
		5,912,094		Aksyuk et al.	06/15/1999	430/5
		5,915,168		Salatino et al.	06/22/1999	438/110
		5,933,746		Begley et al.	08/03/1999	438/405
		5,960,132		Lin	09/28/1999	385/18
		5,969,848		Lee et al.	10/19/1999	359/298
		5,998,816		Nakaki et al.	12/07/1999	257/654
		5,998,906		Jerman et al.	12/07/1999	310/309
		6,000,280		Miller et al.	12/14/1999	73/105
		6,002,818		Fatchi et al.	12/14/1999	385/17
		6,020,272		Fleming	02/01/2000	438/734
		6,044,705		Nuekermans et al.	04/04/2000	73/504.02
		6,097,859		Solgaard et al.	08/01/2000	385/17
	6,121,552		Brosnihan et al.	09/19/2000	174/253	
	6,239,473		Adams et al.	05/29/2001	257/419	

Examiner Signature	Karl I. E. Tamm	Date Considered	10/16/03
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Application Number 09/775,491

Filing Date 02/02/01

First Named Inventor Scott Adams

Group Art Unit 2812

Examiner Name

Attorney Docket Number 4341P053

Sheet 1 of 2

U.S. PATENT DOCUMENTS

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Filing Date if Appropriate
	Number				
[Handwritten Initials]		4,421,381	Ueda et al.	12/20/1983	
		4,598,585	Boxenhorn	7/8/1986	
		4,654,663	Alsenz et al.	3/31/1987	
		4,922,756	Henrion	5/8/1990	
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		5,097,354	Goto	3/17/1992	
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		5,203,208	Bernstein	4/20/1993	
	5,226,321	Varnham et al.	7/13/1993		

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	Office or Country	Number	Date			
[Handwritten Initials]	Japan	60-107017	6/12/1985	Tanabe et al.	6/12/1985	Yes
	Japan	6-180428	6/28/1994	Toyoda et al.	6/28/1994	Yes
	United Kingdom	2 175 705A	12/3/1986	Greenwood et al.	12/3/1986	N/A

OTHER DOCUMENTS

Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published (if known).	Translation? Yes/No
[Handwritten Initials]	Robert E. Mihalovich, Z. L. Zhang, K. A. Shaw, and Noel C. MacDonald, "Single-Crystal-Silicon Torsional Resonators," School of Electrical Engineering, Cornell University, Ithaca, NY 14853, pp. 184-188, IEEE (February 1993).	N/A

Examiner Signature [Handwritten Signature]	Date Considered 9/18/02
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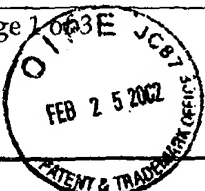
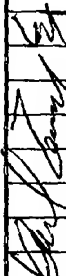
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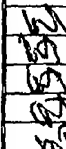
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				Filing Date	February 2, 2001
				First Named Inventor:	Scott Adams
				Group Art Unit	2812
				Examiner Name	Simkovic, Victor
				Attorney Docket Number	4341P053
Sheet 1		of	1		

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Page 1 of 3E 		First Named Inventor: Scott Adams				
		Filing Date: February 2, 2001				
U.S. PATENT DOCUMENTS						
Exam. Initial ⁶	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (If known)			
		3,493,820		Rosvold	02/03/1970	
		5,471,332		Shiragaki et al.	11/28/1995	
		5,583,373		Ball et al.	12/10/1996	
		5,648,618		Neukermans et al.	07/15/1997	
		5,814,889		Gaul	09/29/1998	
		5,907,425		Dickensheets et al.	05/25/1999	
		5,999,303		Drake	12/07/1999	
	6,072,617		Henck	06/06/2000		

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Exam. Initial ⁶	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³ Code ⁵	Number ⁴	Kind (If known)				
		DE	19757181	A1	Bosch	07/01/1999		
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		EP	0 834759	A2	Dhuler, et al.	04/08/1998		
		EP	0 980014	A1	Meier, et al.	02/16/2000		
		GB	2 239 101	A	Rowe	06/19/1991		

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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)				Attorney Dock t No.: 4341P053		Application Number: 09/775,491	
Page 2 of 3 OFFICE FEB 25 2002 PATENT & TRADEMARK OFFICE				First Named Inventor: Scott Adams			
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U.S. PATENT DOCUMENTS							
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number	Kind Code ² (If known)				
W		6,075,639		Kino et al.	6/13/2000		
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W		6,178,284	B1	Bergmann et al.	1/23/2001		
W		6,220,561	B1	Garcia	04/24/2001		
W		6,245,590	B1	Wine et al.	6/12/2001		
W		6,253,001	B1	Hoen	6/26/2001		
W		6,262,827	B1	Ueda et al.	7/17/2001		
W		6,295,154	B1	Laor et al.	9/25/2001		

FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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W		GB	2 275 787	A	Pember	09/07/1994		
W		WO	99/67666		Laor	12/29/1999		

Examiner Signature	<i>John J. Zinner</i>	Date Considered	9/18/02
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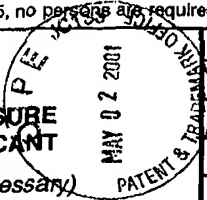


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Application Number	09/775,491
Filing Date	02/02/01
First Named Inventor	Scott Adams
Group Art Unit	2812
Examiner Name	
Attorney Docket Number	4341P053

Sheet	2	of	2
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U.S. PATENT DOCUMENTS

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Filing Date if Appropriate
	Number				
Carl T. May Jr.	5,488,862		Neukermans et al.	2/6/1996	73/504.02
	5,524,153		Laor	6/4/1996	385/16
	5,536,988		Zhang et al.	7/16/1996	310/309
	5,629,790		Neukermans et al.	5/13/1997	359/198
	5,673,139		Johnson	9/30/1997	359/198
	5,920,417		Johnson	7/6/1999	359/223
	6,000,280		Miller et al.	12/14/1999	73/105
	6,097,858		Laor	8/1/2000	385/16
	6,097,860		Laor	8/1/2000	385/16
	6,101,299		Laor	8/8/2000	385/16

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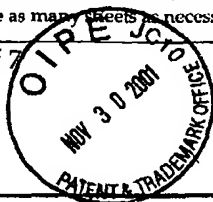
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Page 1 of 7		First Named Inventor: Scott Adams	
		Filing Date: February 2, 2001	



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		Number Code ²	Kind (If known)			
WA		4,104,086		Bondur et al.	08/01/1978	148/115
WA		4,509,249		Goto et al.	04/09/1985	29/576
WA		4,519,128		Chesebro et al.	05/28/1985	29/576
WA		4,553,436		Hansson	11/19/1985	73/517 R
WA		4,571,819		Rogers et al.	02/25/1986	29/576
WA		4,670,092		Motamedi	06/02/1987	156/643
WA		4,688,069		Joy et al.	08/18/1987	357/34
WA		4,706,374		Murakami	11/17/1987	437/225
WA		4,738,500		Grupp et al.	04/19/1988	350/6.6
WA		4,784,720		Douglas	11/15/1988	156/643

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		Office ³ Code ⁵	Number ⁴	Kind (If known)				
W9		DE	4224601	A1	Hansmann et al.	01/27/1994	6028/26/00	
W9		WO	94/18697		Shaw et al.	08/18/1994	1012/21/44	
W9		WO	97/04283		Miller et al.	02/06/1997	501B	
W9		WO	99/36941		Adams et al.	07/22/1999	1111	
W9		WO	99/36948		Adams et al.	07/22/1999	1012/21/44	

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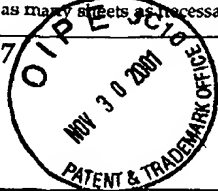
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Page 2 of 7	First Named Inventor: Scott Adams	
	Filing Date: February 2, 2001	



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W		4,851,080		Rowe et al.	07/25/1989	156 647
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W		5,198,390		MacDonald et al.	03/30/1993	437 203
W		5,199,088		Magel	03/30/1993	385 18
W		5,221,987		Laughlin	06/22/1993	359 222

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W		WO	01/33898	A2	Ramaswami et al.	05/10/2001	404 Q 1/00	
W		WO	01/39413	A2	Ramaswami et al.	05/31/2001	404 J 3/00	
W		EP	1 120677	A2	Wood et al.	08/01/2001	602 B 26/02	
W		EP	1 120989	A1	Mazzurco et al.	08/01/2001	404 Q 1/04	
W		JP	5-107485	A	Koyabu et al.	04/30/1993	602 B 26/08	✓

Examiner Signature	<i>[Signature]</i>	Date Considered	10/20/03
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by		Timothy J. Broshnihan, James M. Bustillo, Albert P. Pisano & Roger T. Howe, "Embedded Interconnect & Electrical Isolation for High-Aspect-Ratio, SOI Inertial Instruments," Berkeley Sensor & Actuator Sensor, pp. 637-640, Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators (Chicago, June 16-19, 1997)	
by		Janusz Bryzek, Kurt Petersen, & Wendell McCulley, "Micromachines on the March," IEEE Spectrum, pp. 20-31 (May 1994)	
by		Wolfgang Kuehnel and Steven Sherman, "A Surface Micromachined Silicon Accelerometer with On-Chip Detection Circuitry," Sensors and Actuators A 45, pp. 7-16 (1994) (5/1994)	
by		Howard K. Rockstad, et al., "A Miniature High-Sensitivity Broadband Accelerometer Based on Electron Tunneling Transducers," Sensors and Actuators A 43, pp. 107-114 (1994) (1/1994)	
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by		Kevin A. Shaw, et al., "SCREAM I: A Single Mask, Single-Crystal Silicon, Reactive Ion Etching Process for Microelectromechanical Structures," Sensors and Actuators A, 40 pp. 63-70 (1994) (9/17/1993)	
by		Toshiki Hirano, et al., "Design, Fabrication, and Operation of Submicron Gap Comb-Drive Microactuators," J. of Microelectromechanical Systems, Vol. 1, No. 1, pp. 52-59, (March 1992)	
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lt		Rudolf F. Graf, Radio Shack Dictionary of Electronics, p. 639, Definition of Varibale Capacitor with Picture (1974)	
lt		M. Adrian Michalick, Wenge Zhang, Kevin F. Harsh, Victor M. Bright, and Y.C. Lee, "Micromirror Arrays Fabricated by Flip-Chip Assembly," Part of the SPIE Conference on Miniaturizes Systems with Micro-Optics and MEMs, Santa Clara, SPIE Vol. 3878, pp. 68-79 (September 1999)	
lt		Chris Seung-Bok Lee, Sejin Han, Noel C. MacDonald, "Multiple Depth, Single Crystal Silicon Microactuators for Large Displacement Fabricated by Deep Reactive Ion Etching," Solid-State Sensor and Actuator Workshop, Hilton Head Island, SC, pp. 45-50 (June 8-11, 1998)	
lt		Russell Y. Webb, Scott G. Adams, and Noel C. MacDonald, "Suspended Thermal Oxide Trench Isolation for SCS MEMS." SPIE Vol. 3519, Boston, MA, pp. 196-199 (November 1998)	
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lt		Leslie A. Field, Diane L. Burriesci, Peter R. Robrish, and Richard C. Ruby, "Micromachined 1 X 2 Optical-Fiber Switch," Sensors and Actuators A, 53, pp. 311-315, (1996)	
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lt		Ming C. Wu, "MEMS for Optical and RF Applications." UCLA Extension, Department of Engineering, Information Systems and Technical Management, Engineering: 823.52, November 1-3, 1999.	
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lat		William C. Tang, Martin G. Lim, and Roger T. Howe, "Electrostatic Comb Drive Levitation and Control Method" Journal of Microelectromechanical Systems, Vol. 1, No. 4, pp. 170-178 (December 1992)	
lat		PCT Notification of Transmittal of The International Search Report or The Declaration for PCT Counterpart Application No. PCT/US01/03760 Containing International Search Report (September 5, 2001)	
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